Message

From: Wirick, Holiday [wirick.holiday@epa.gov]

Sent: 10/6/2020 11:54:12 PM

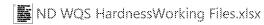
To: Anderson, Danielle [Anderson.Danielle@epa.gov]; Sengco, Mario [Sengco.Mario@epa.gov]

Subject: Follow-up to my questions re: ND hardness-dependent criteria

Attachments: ND WQS ACUTE_CHRONIC.xls; 304a metals calculator.xlsx; ND WQS

2020_Complete_Rule_Ammendents_Strikeout_Color_NEW.docx

Wirick, Holiday has shared a OneDrive for Business file with you. To view it, click the link below.





Hi Danielle and Mario, thanks again for your help on this issue. I really appreciate it.

Just as an FYI, I attached the following four files for your reference.

- ND WQS Hardness Working Files contains ND's lentic and lotic system data. Lentic data collected between 1991 and 2020 at 0-6' (7,141 samples). Maximum concentrations of 3,550 mg/l, Average concentration of 442 mg/l, Median concentration of 405 mg/l. Lotic systems data collected between 1993 and 2020 at all depths (13,597 samples). Maximum concentrations of 14,500 mg/l, Average concentration of 632 mg/l, Median concentration of 428 mg/l.
- ND WQS Acute_Chronic contains ND's hardness criteria calculations.
- 304a metals calculator is the spreadsheet Mario and Erica sent me.
- ND WQS 2020 _complete_rule_Amendments_Strikeout_Color_NEW is ND DEQ's proposed WQS revisions that are out for public comment. The table with hardness dependent criteria revisions is on page 15.

Thank you. Have a wonderful evening!

Holly Wirick Water Quality Section U.S. EPA - Region 8 303-312-6238